

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 687-155	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/ 30239	International filing date (day/month/year) 02/11/2000	(Earliest) Priority Date (day/month/year) 18/11/1999
Applicant UNIVERSITY OF ROCHESTER		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2a

☐ None of the figures.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Volume tomographic mammography is performed with a gantry frame (206) on which a cone-beam radiation source (210) and a thin-film detector(208) are mounted. The patient (P) rests on an ergonomically designed table (202) with a hole (204) to allow one breast(B) to extend there through such that the gantry frame (206) surrounds that breast. The gantry frame is rotatable so that the radiation source (210) and the detector (208) move in a circular orbit around the breast (B). In addition, the gantry frame (206) is movable to describe a geometry other than a simple circle orbit, such as a circle plus one or more lines or a spiral.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61B6/00 A61B6/03 A61B6/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 01066 A (UNIV ROCHESTER) 14 January 1999 (1999-01-14) page 2, line 2 - line 25 page 22, line 26 - line 29 page 24, line 11 - line 19 page 25, line 23 - line 29 page 28, line 27 - page 29, line 2 ---	1-9, 13-24, 31, 35, 38-40
X	EP 0 948 930 A (PICKER INT INC) 13 October 1999 (1999-10-13) column 3, line 16 - line 25 column 4, line 3 - line 11 column 4, line 26 - line 34 column 4, line 52 - column 5, line 9 --- -/--	1-5, 16-20, 25, 29-31

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

6 March 2001

Date of mailing of the international search report

16/03/2001

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JAFFRAY D A ET AL.: "Performance of a Volumetric CT Scanner Based Upon a Flat-Panel Imager" PROCEEDINGS OF THE 1999 MEDICAL IMAGING - PHYSICS OF MEDICAL IMAGING CONFERENCE, SAN DIEGO, CA, USA, vol. 3659, no. 1, 21 - 23 February 1999, pages 204-214, XP000989701 chapter 2 "CBCT SYSTEM" page 213, line 16 -page 214, line 5 ---	1,16
X	US 5 949 811 A (BABA RIKI ET AL) 7 September 1999 (1999-09-07) ---	1,4,13, 14,16, 19, 25-27, 31,38, 39,41,42 15,28, 35,40,43
A	column 12, line 29 - line 49 column 13, line 26 - line 40 column 30, line 14 - line 40 column 31, line 13 - line 16 column 37, line 29 - line 32 ---	
A	US 4 015 836 A (REDINGTON ROWLAND W ET AL) 5 April 1977 (1977-04-05) column 3, line 38 - line 44 column 4, line 63 -column 5, line 8 ---	1,16,19, 31,32
A	IVANOVIC M ; WEBER D A ; LONCARIC S: "Multi-pinhole collimator optimization for high resolution SPECT imaging " 1997 IEEE NUCLEAR SCIENCE SYMPOSIUM CONFERENCE RECORD, ALBUQUERQUE, NM, USA, 9-15 NOV. 1997, vol. 2, 1998, page 1097 - 1101 XP002161775 page 1099, right-hand column, line 17 - 20 abstract ---	1,4,5, 16,31-33
A	US 5 459 769 A (BROWN BARRY D) 17 October 1995 (1995-10-17) column 3, line 19 - line 32 column 3, line 64 -column 4, line 2 column 4, line 31 - line 33 -----	1,4,11, 16,19, 31,35,36

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9901066 A	14-01-1999	US 5999587 A US 6075836 A AU 7969098 A EP 0993272 A	07-12-1999 13-06-2000 25-01-1999 19-04-2000
EP 0948930 A	13-10-1999	US 6041097 A JP 2000023968 A	21-03-2000 25-01-2000
US 5949811 A	07-09-1999	JP 10112399 A JP 10192267 A	28-04-1998 28-07-1998
US 4015836 A	05-04-1977	US 3973126 A DE 2633828 A FR 2319323 A GB 1546680 A GB 1546679 A	03-08-1976 03-02-1977 25-02-1977 31-05-1979 31-05-1979
US 5459769 A	17-10-1995	NONE	

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 10
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.